STERNBERG, L.

Effect of corrosive media upon resistance of steel; a book review. p. 2
TEHNICA NOUA, Bucuresti, Vol 3, No. 35, Feb., 1956

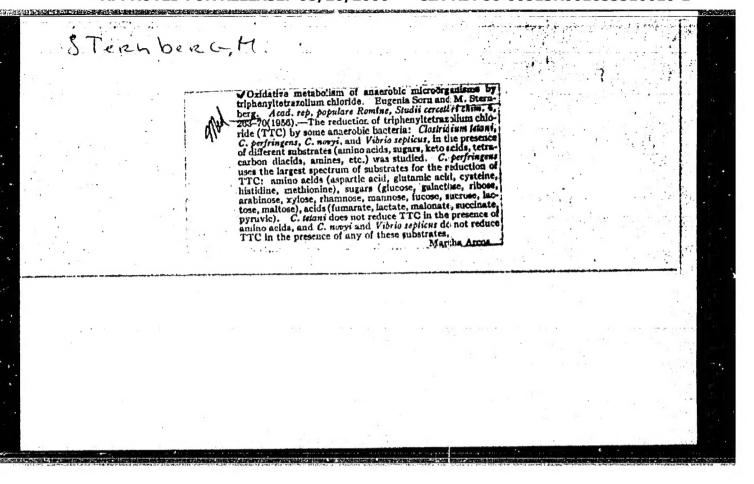
SO: East European Accessions List (EFAL) Library of Congress, Vol 5, No. 7, July, 1956

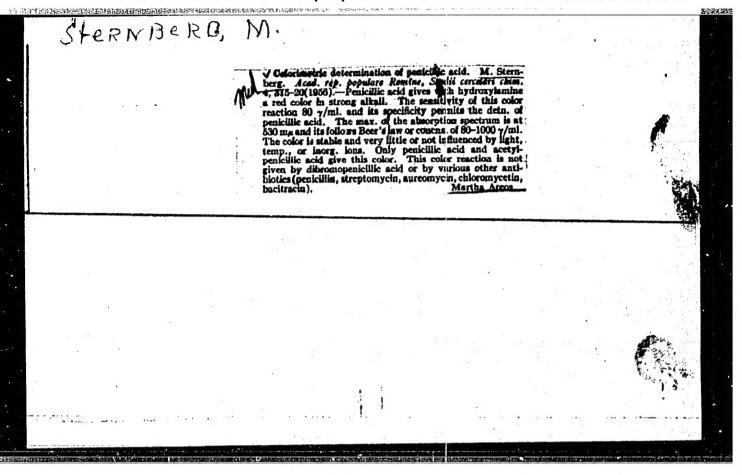
THE SECOND PROPERTY OF SECOND PROPERTY OF THE PROPERTY OF THE

KRATOCHVILOVA, E.; KRUPICKA, S.; STERNBERK, J.; ZITKA, B.

Time increase of induction in the manganese-copper ferrite with rectangular hysteresis loop. Cs cas fys 14 no. 4: 293-302 164.

1. Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague.





nnani, fac nes tor some Princetor Post on and Anials.	Deckris. Occurs	Number of the Characteristic of the Characte	ajev. Crama. Arad. NHB. 1956, 6, Bo 10, 1245-1250 Crama. Arad. NHB. 1956, 6, Bo 10, 1245-1250 Ene authors obtained a complex of the Charted mirrors markespolipsyttise 1778 by subjecting deficited mirrors estis to the articles of a boars pariety (FR 8-2). The estis to the articles of a boars pariety of sections of the contract	insa compas. Muclaic acid and 15,96% of ribonulais acid), 4	of reducing super and 9.7% of lights. Following sets by the complex, 33 and no sets were detected with the set of circumtography, camp then 3-35 of aland in 55 of circumtography, camp then 3-35 of aland in 5.5 of circumtography, camp then 3-35 of aland and 3.3% of circumtography, camp then 3-35 of circumtography camp to 5.3% of circumtogra		
WANTA/Merastolo	Abe Jour : Ref.	fitte : Con	Orty Pub : Crous. Shernet : Ess au ments:	#) (/1 Pre0	24 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E/A pue	

IONESCU-MIHAESTI, C.; DIMBOVICEANU, Aristia; SORU, Engenia; RADULESCU, Elena; BARBER, Cella; GANCEVIGI, G.; OPRESCU, C.C.; FLECHNER, I.; STERNBERG, M.

Chemical and antigenic properties of protein fractions isolated from filtrates of cultures of tubercle bacilli of the human type H 17 v in Sauton's medium. Stud. cercet. inframicrobiol., Bucur. 8 no.1:85-94 1957.

(MYCOBACTERIUM TUBERCULOSIS, culture human type H₂₇v bact. cultured in Sauton medium, chem. & antigenic properties of protein fractions)

(ANTIGENS

antigenic properties of protein fractions of M. tuberc., type H, cultured in Sauton's medium)
(PROTEINS 37

protein fractions of M. tuberc., type H. v, culture in Sauton's medium, chem. & antigenic properties)

RUMANIA/Chemical Technology - Chemical Products and Their Applications - Drugs, Vitamins, Antibiotics.

Abs Jour

WILLIUSER, M.

: Ref Zhur - Khimiya, No 11, 1958, 37204

Author

Ionescu, M., Waitman, R., Miss, A., Voinescu, R., Benis, B., Sternberg, M.

Title

Purification Methods of Penicillin.

Orig Pub

: Rev. Chim. 1957, 8, No 5, 334-335

Abstract

: Conditions for application of methods for penicillin G (I) purification have been established. They are: Precipitation of the colored impurities by acidification, recrystallization of (I) from butanol and isopropanol, purification of N,N*-dibenzyl ethylenediamine dipenicillate.

Straken M.

RUMANIA / Chemical Technology, Chemical Froducts and Their Application, Fart 3. - Drugs, Vitamins, Antibiotics.

Abs Jour : Ref Zhur - Khim., No 14, 1958, No 47777

Author : M. Sternberg, B. Benis, A. Solomon, Renee Ghimpu, Luliana Conu, A. Miss, I. Andronic, Ciocaneloa, A. Prialnic, Alice

Ilian, Hermina Schreiber.

Inst :

Title : Dicillin (Dipenicillinate of N, N'-Dibenzylethylenediamine).

Orig Pub : Rov. cmin., 1957, 8, No 5, 339 - 341

Abstract: Methods of N,N'-dibenzylethylenediemine dipenicillinate preparation of crystalline penicillin G or various intermediate phases of its extraction or purification are described. Hints concerning the preparation of some Galenic forms (tablets and injection suspensions) and the methods of chemical and microbiological analyses are presented.

Cord 1/1

STERNBERG, M.; VOINESCU, R.

A chromatographic determination of gibberellic acid. Folia microbiol 6 no.3:189-191 '61. (EZAI 10:8)

1. Biosynthetic Section, Chemical Pharmaceutical Research Institute, Bucharest.

(GIBBERKLIC ACID) (CHROMATOGRAPHY)

VASIL'YEV, Ivan Mitrofanevich; GENKEL', P.A., professor, redakter;
STEPHREG, M.B., redakter; POLYAKOVA, T.V., tekhnicheskiy
redakter.

[Wintering of plants] Zimevka rastemii. Meskva, Ind-ve
Akademii mauk SSSR, 1956. 307 p. (MIRA 9:6)

(Plants--Frest resistance)

NONAY, Tibor,; STERNBERG, R.,; KORNEL, ALICE,; KORNEL, Alice.

。 1. 文化是全种的数据,我们就是不是因为确定的数据的数据的数据的数据的数据的数据,对于不是是可能不够有证明,就是可能是是这种,可以可以是不是一个,可以是不是一个

Surgery of vertical muscles of the eye. Szemeszet 91 no.4: 145-150 Nov 54.

1. A budapesti Orvostudomanyi Egyetem II. sz. Szemklinikajanak kozlemenye (Igazgato: Nonay Tibor egyetemi tanar, az orvostudomanyok kandidatusa) (MUSCLES, OCULOMOTOR, surgery, vertical musc.)

89403

5/062/61/000/001/011/016 B101/B220

5.3610 AUTHORS:

2209, 1375

Ciorenescu, Caterina, Buchen-Barladeanu, Ludmilla

[Abstracter's note: or Birladeanu], and Sternberg, René

TITLE:

Synthesis of a-aminoketones

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 144-148

The authors mention the use of α -aminoketones as starting material for the synthesis of oxazoles which are used as scintillators. After mentioning the known methods of synthesis from α -haloketones, oximino ketones, oxime aryl sulfonates, N,N-dichloro-sec-alkyl amines, and N-acylated amino acid chlorides, they describe a simple method for the synthesis of aromatic α-aminoketones. Azlactones (derivatives of 5-oxyzolone) were used as initial substances:

Card 1/4

89403

Synthesis of a-aminoketones

S/062/61/000/001/011/016 B101/B220

1

and R_1 R_2 R_2 R_3 R_4 R_5 R_5 R_5

(II). Saturated (II) is more reactive than unsaturated (I). It can be obtained by treatment of α-acyl amino acids or α-amino acids with acetaldehyde. Azlactones react with arcmatic hydrocarbons in the presence of electrophilic catalysts (AlCl₂):

$$Ar-H + R_1 - CH - C = 0 \xrightarrow{AlCl_3} Ar - CO - CH - R_1$$

$$N O \qquad NHCOR_2$$

From this reaction the authors obtained α -acyl aminoketones by treatment of the n-benzoyl derivatives of glycine, alanine, α -aminobutyric acid, phenyl glycine, and phenyl alanine with acetaldehyde. If the low α -amino acids are treated directly with acetanhydride, it is difficult to separate the excess aldehyde from the azlactone. In the case of phenyl alanine, also α -amino indanone was formed owing to a side reaction. In the case of Card 2/4

Synthesis of a-aminoketones

89403 \$/062/61/000/001/011/016 B101/B220

higher homologs, there occurs only this reaction which will be dealt with elsewhere. Results are summarized in a table. Since all α -aryl aminoketones possess the group

Ar-C-C-N

which occurs also in adrenalin and ephedrine, the substances obtained will be studied as to their physiological effect. It is emphasized that the α -aminoketones are valuable intermediate products for the synthesis of derivatives of pyrrole, imidazole, and oxazole. The investigation will be continued with higher aromatic hydrocarbons with a view to obtaining α -acyl aminoketones with various aryl radicals, which can be produced by other methods only with difficulty and are able to serve as initial substances for the synthesis of bisubstituted oxazoles. There are 1 table and 16 references: 2 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION: Institute of Chemistry, Academy of the Rumanian People's

Republic

SUBMITTED: June 4, 1960

Card 3/4

89403

Synthesis of α -aminoketones

S/062/61/000/001/011/016 B101/B220

NH—COR:

1	Исходиме рективы	Ar	R,	R,	T. nm, *C /L	Выход %	Лите- ратура 44
вроматиче- ския ком- понента	3 вминекислотв						
4 Бензол	эТиппуровая СМ-бензоилалланин 1М-бензоил-а-аминомасля ная	C ₄ H ₄ C ₄ H ₄ C ₄ H ₄	H CH ₃ CH ₄	C _a H _a C _a H _a C _a H _a	123 103 101	81 82 84	[11] [13] [14]
	N-ацетилфенилглицин N-бензоилфенилалланин уГиппуровая	C ₆ H ₆ C ₆ H ₆ (CH ₃ O—C ₆ H ₆ (HO-C ₆ H ₄		CH ₃ C ₄ H ₄ C ₄ H ₄	134 144 113	60 28 16	[15]
479	N-бензонлалланин	CH ₃ ·C ₄ H ₄	H CH ₃	C ₄ H ₅	156 113	20 81	[16]

Legend to the table: 1) initial substances; 2) aromatic component; 3) amino acid; 4) benzene; 5) hippuric acid; 6) N-benzoyl alamine; 7) N-benzoyl-α-aminobutyric acid; 8) N-acetyl-phenyl glycine; 9) N-benzoyl-phenyl alamine; 10) anisole; 11) toluene; 12) melting point; 13) yield; 14) reference.

Card 4/4

AVRAM, Margareta; STERNBERG, Renée; DINULESCU, I.G.; NENITESCU, C.D., acad.

Condensation of 1,3-diiod-2-phenylpropane with ethyl malonate. Studii cer chim 10 no.1:73-80 162.

1. Centrul de cercetari chimice al Academiei R.P.R., Sectia de chimie organica, Bucuresti. 2. Membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari de chimie" (for Nenitescu).

THATTER, 3.; HI MOULING, I.

Thermodynamic properties of the binary salt mixtures in a dissolved state. I. The AgC14KC1 system. In German. p. 251.

REW'E DE CHIMIE. JOURMAL OF CHEMISTRY. (Academia Republicii Populare Romine) Bucuresti, Rumania. Vol. 2, no. 2, 1957.

Monthly List of East European Accessions (LEAI) ID, Vol. S, no. 7, July 1959.

Uncl.

STATEBOOK, J.; MORES HETOT, J.; MORESHAN, D.

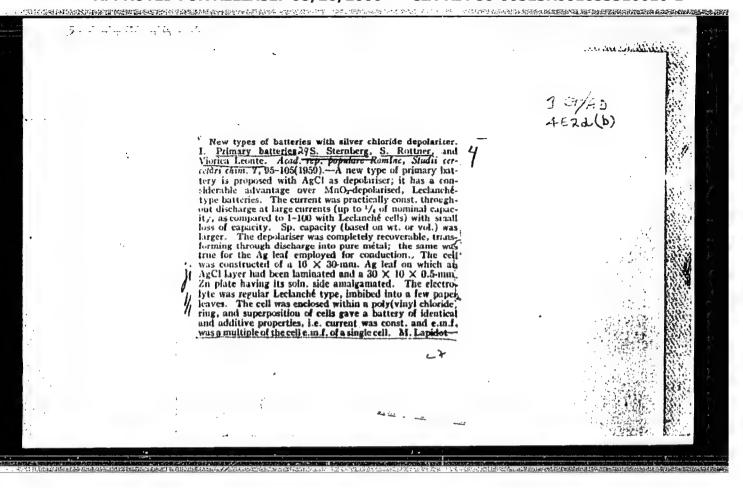
Finary calt mixtures, and their thermodynamic properties when in liquid state.

I. The Ager-Acol system. III. The ArCl-ECl and ArCl-Ecol₂ mixtures, and the determine tion of their activity by melting Siagrams. IV. The AgCl-ECl system, and the determination of its thermodynamic activity by concentration chains. V. Nelting diagrams as used in determining the thermodynamic activity of the following mixtures: AgBr-EBr, FbCl₂-EiCl, FbCl₂-NaCl, and FbCl₂-CaCl₂. In German. p. 47.

HAVUE DE CHECTE. JOURNAL OF CHECICTRY. (Academia Republicii Fopulare Romine) Bucuresti, Romania. Vol. 3, no. 1, 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 7, July 1959.

Uncl.



STERNBERG, S.; GHFOREHIM, S.

Thermodynamic properties of the AgCl NaCl mixtures in a melted state, p.107.

STUDII SI CERCETARI DE CHIMIE. Bucresti, Rumania Vol. 7, No. 1, 1959.

Monthly List of East European Accession (EFAI). LC, Vol. 8, No. 9, Sept. 1959

SHTERNBERG, S. [Sternberg, S.]; GEORGIU, Steliana [Gheorghiu, Steliana]

Thermodynamic properties of the mixture AgCl+ NaCl in dissolved state. Rev chimie 5 no.1:119-128 *60. (EEAI 10:2)

1. TSentr khimicheskikh issledovaniy Akademii RNR, Bukharest.
(Mixtures) (Silver chloride) (Salt)

· 化学学的学习和中国的国际的证据。在《 Bible Windows

STERNBERG, S.; MARTA, Letitia

A method of determining the heat of fusion of theinorganic salts. Rev chimie 5 no.2:281-288 '60. (EEAI 10:4)

1. Centre de Recherches Chimiques de la Republique Populaire Roumaine, Section de Chimie physique. (Inorganic compounds) (Salts)

STERNBERG, S.; MARTA, Letitia

A method of determining the heat of fusion of inorganic salts.

Studii cerc chim 8 no.3:437-444 160. (EEAI 10:9)

1. Centrul de cercetari chimice, Sectia de chimie-fizica, Bucuresti.

(Salts) (Inorganic compounds) (Fusion)

TOPOR, Dumitru; STERNBERG, S.

Transport number in the aqueous solutions of CuCl₂. Studii cerc chim 8 no.3:445-449 160. (EEAI 10:9)

1. Centrul de cercetari chimice, Sectia de chimie-fizica, Bucuresti.

(Solutions) (Water) (Copper chlorides)
(Ions) (Electrolysis)

 MURGULESCU, I. G., acad.; STERNBERG, S.

Mixing heat of the binary melted salt mixtures. Rev chimie 6 no.1: 29-44 *61.

1. Abteilung fur physikalische Chemie, Chemisches Forschungszentrum der Akademie der RVR, Bukarest. 2. Membre du Comite de redaction "Revue de chimie" (for Murgulescu).

MURGULESCU, I. G., acad.; STERNBERG, S.

On the heat of the mixture of the binary systems of melted salts. Studii cerc chim 9 no.1:39-54 *61. (EEAI 10:9)

1. Centrul de cercetari chimice al Academiei R.P.R., Sectia de chimie-fizica, Bucuresti. 2. Comitetul de redactie, Studii si cercetari de chimie (for Murgulescu).

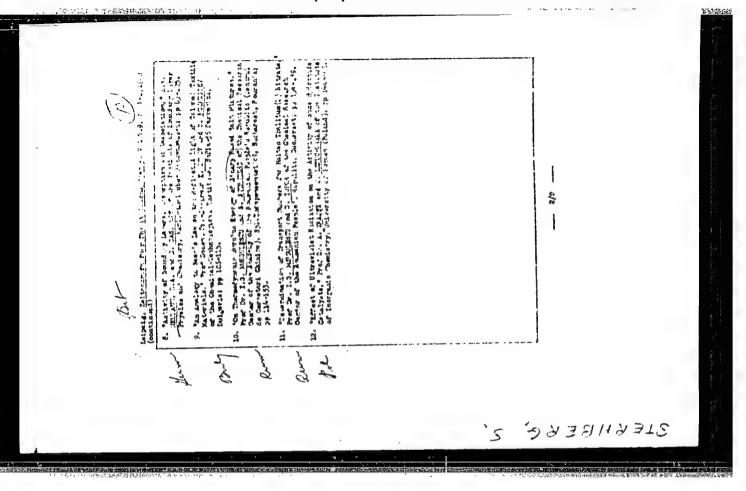
(Mixtures) (Salts) (Heat)

STERNBERG, S.; MARCHIDAL, D.I.

Thermodynamic activity determined with diagrams of fusion in the mixture of the melted salts forming chemical compounds. Studii cerc chim 9 no.4:653-661 '61.

1. Centrul de cercetari chimice al Academiei R.P.R., Sectia de chimie-fizica, Bucuresti.

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310010-1



STERNIERG, S.; MEDINTEV, Ludmila

Determination of thermodynamic properties of molten salts by the oscillographical method; the mixture AgBr + AgCl and the pure salts KBr and NaBr. Fev chimie 7 no. 1: 569-577 162.

1. Chemical Centre of the Academy of the R. P. R. Bucharest.

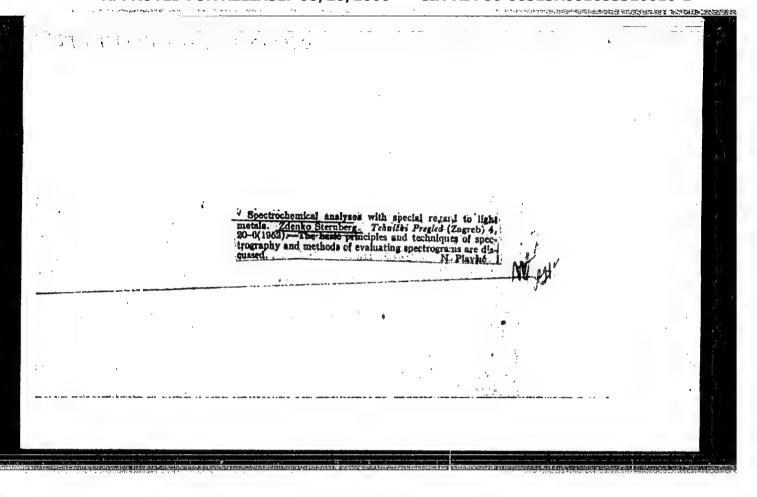
SHTERNBERG, S. [Sternberg, S.]; MARKIDAN, D.I.

Determination of thermodynamic activity with the aid of fusion diagram, for the mixture of melted salts, forming chemical compounds. Rev chimie 8 no.1:115-121 '63.

1. Tsentr khimicheskikh issledovaniy Akademii RNR, Sektsiya Fizicheskoy khimii Bukharest.

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00

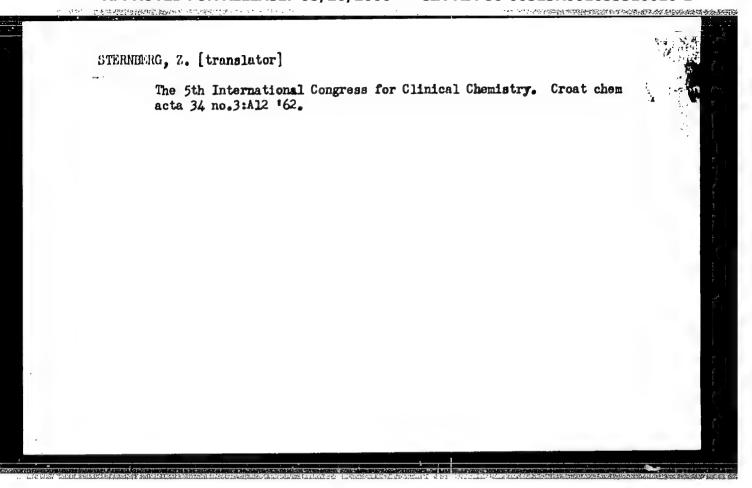
CIA-RDP86-00513R001653310010-1



STERNBERG, Z.; TOMAS, P.

Excitation of helium atoms by the impact of deuterons and rotons. Bul sc Youg 7 no.1/2:19 F-Ap '62.

1. Institut "Ruder Boskovic," Zagreb.



STERNBURG, Zdenko, di;l. inz.

Direct conversion. Nuklear energija 1 no.2/3 34-36 164.

Thermonuclear research. Ibid.:4 - 4

1. Senior Technical Assistant and Head, Laboratory of the Physics of Tonized Gases of the Ruder Boskovic Institute, Zagreb.

So: Nonthly List of East European Accessions, Vol. 2, #10 Library of Congress Cote.or 173, Uncl.

STERN BERK, B.

"Color of stars." (p.151). RISE HVEZD. (Ceskoslovenska spolecnost astronomicka) Praha. Vol. 34, No. 7, Sept. 1953.

SO: East European Accessions List, Vol. 3, No. 8, Aug 1954.

STERNBERK, Bohumil.

Congress of the International Astromical Union in Berkeley, August 15-24, 1961. Poroky mat fyz astr 7 no.1:38-40 162.

STERNBERK, J.

Bellistic demagnetizing factors for samples with rectangular cross sections [with summary in English]. Chekh.fiz.zhur. 3 no.1:85-93 Mr '53. (MLRA 7:6)

1. Institute of Technical Physics, Prague. (Electromagnetic theory)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310010-1

· 1995年中国共享政策中国公司的政策的政策的国际的政策中的政策的政策的

STERNBERK, J.

"Experimental Confirmation of Arkad' ev's Proposition of the Straight-Line Course of a Correction Curve," p.132.
(Casopis Pro Testovani Fysiky, Vol.3, No.2, Apr. 1953, Praha.)

East European Vol.2, No.9
So: Monthly List of Kassian Accessions,/Library of Congress, September 1953, Uncl.

The County of the County of Building County of the County

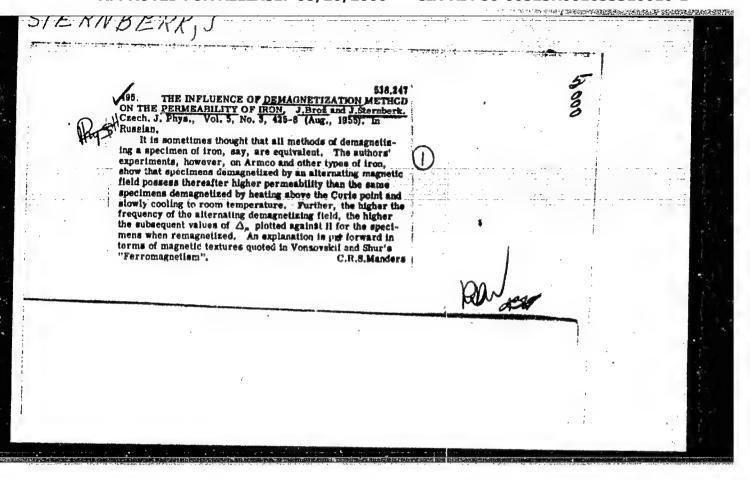
STERNBERK, Jiri.

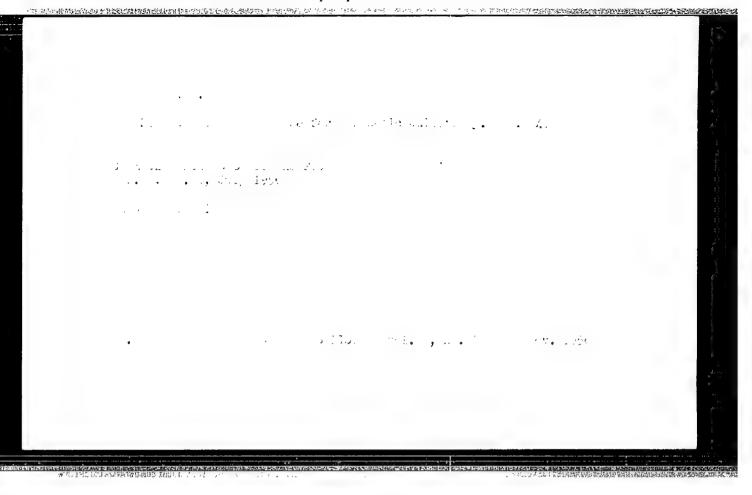
Experimental verification of Arkadiev's assumption on the linearity of the displacement curve [with summary in English]. Chekh.fis.shur. 3 no.2:151-161 Je '53. (MLRA 7:6)

1. Institute of Technical Physics, Prague.
(Electromagnetism) (Hysteresis)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310010-1





STFRNBERK, J.

Contribution to the study of ideal magnetization of manganese ferrite.

P. 142 (Ceskoslovenska Morfologie. Vol. 5, no. 4, 1057, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2, February 1957

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310010-1

。	1643年4月
STERNBERK, J. Videal magnetization of manganous ferrite. berk - Crechostor. J. Phys. 7, 142-5(1957) - The magnetization of a Min ferrite (Fe,O, 70.98, Mn 28.44, O.13, SiO, 0.3%; outside diam. 10 mm; inside diam. 6 mm; height 4.5 mm; 350 + 35 windings) was examd. with modification of the direction of the magnetic field. The main results are: max. permeability phas. = 1120; remandered = 2500 gausses; correive force = 1.20 oc; internal demagnetization factor 0.00110. From C.Z. 1958, 8832.	

CIA-RDP86-00513R001653310010-1 "APPROVED FOR RELEASE: 08/26/2000

Sternberk, Jiří AUTHOR:

CZECH/37-59-3-16/29

TITLE:

On the Problem of the Rectangularity of the Hysteresis Loop

of Manganese Ferrite (Letter to the Editor)

PERIODICAL:

Československý časopis pro fysiku. 1959, Nr 3, p 320

ABSTRACT: The rectangularity of the hysteresis loop of ferrites is influenced by magnetocrystalline and magneto-elastic anisotropy as well as by purosity (Wijn et al - Ref 1). As a measure for the porosity we have used (Refs 3,4,5) the

internal demagnetization factor.

The ratio Br/Bmax (remanent/maximum induction) was

independent of the chemical composition of the samples but it was dependent on the internal demagnetization factor

N_i (Figure 1).

The letter contains 1 figure and 6 references, of which

1 is English, 2 are Czech and 3 German.

Card1/2

CZECH/37-59-3-16/29

On the Problem of the Rectangularity of the Hysteresis Loop of Manganese Ferrite (Letter to the Editor)

ASSOCIATION: Ústav technické fysiky ČSAV, Praha (Institute of Technical Physics, Czechoślovak Ac.Sc., Prague)

SUBMITTED:

November 5, 1958

Card 2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310010-1

F-L

STERMBERK JiKi

CZECHOSLOVAKIA / Magnetism. Ferromagnetism.

Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6846

Author : Sternberk, Jiri

Title : Methods of Studying Ferromagnetic Anisotrophy

Orig Pub : Ceskosl. caslp fys., 1956, 6, No 4, 449-481

Abstract : Survey. The relationship between the energy of magnetic anisotropy and other magnetic properties is considered. Methods

for the determination of the anisotropy constants are analyzed from the physical point of view, and a brief report is given on

the results of a study of anisotropy in metallic and non-metallic ferromagnetics. Bibliography, 90 titles.

Card : 1/1

CZECHOSLOVAKIA/Magnetism - Ferrites and Ferrinagnetism.

Abs Jour : Ref Zhur - Fizika, No 6,1959, 13245

Author : Sternberk, J.R.

Inst : Institute of Technical Physics, Czechoslovak Academy of

Sciences, Prague.

Title : Concerning the Problem of Investigating the Ideal Magne-

tization of Manganese Ferrites.

Orig Pub : Chekhoal. fiz. zh., 1957, 7, No 3, 339-343

Abstract : The author describes certain improvements in the well-

known differential method of determining the ideal ingnetization. The new measurement method is verified on two toroids of imaganese-ferrite and homogeneity of the investigated interial is studied on the basis of the in-

ternal demagnetization.

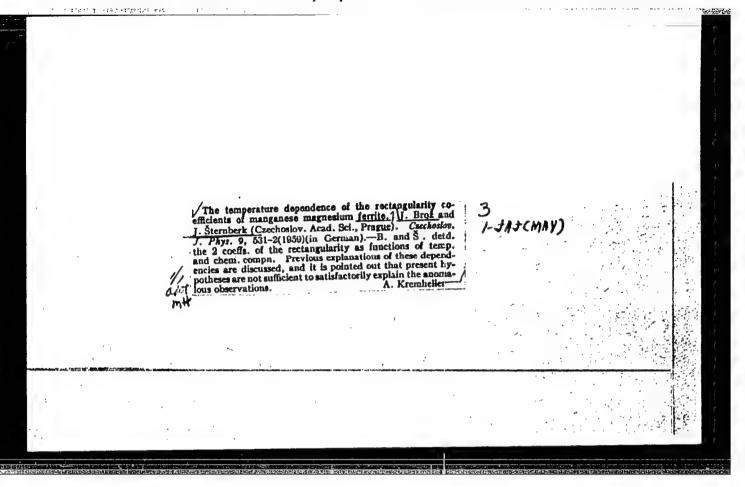
Card 1/1

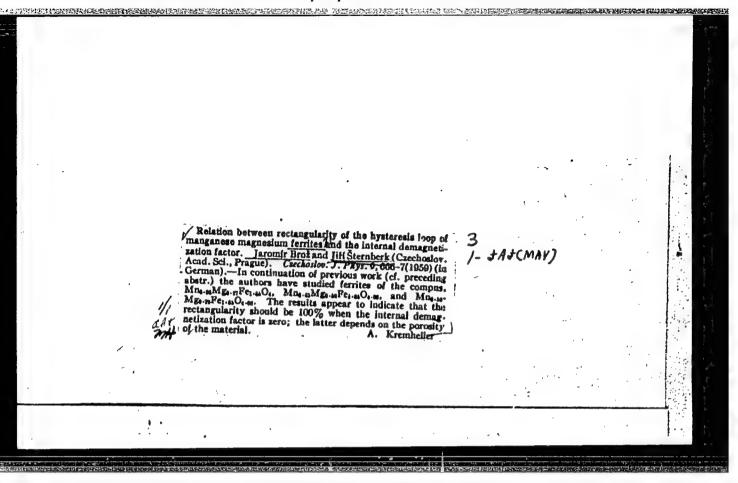
STERNBERK, J.; BROZ. J.

Temperature dependence of the coefficients of rectangularity of manganese magnesium ferrites. p. 445

CESKOSIOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha, Czechoslovakia, Vol. 9, no. 4, 1959.

Monthly List of East European Accessions (EFAI), LC, Vol. 8m no. 10, Oct. 1959 Uncl.





40299

S/194/62/000/006/008/232 D222/D309

24,2200

AUTHOR:

Sternberk, J.

TITLE:

Effective anisotropy constant of polycrystalline nickel

ferrite

PERIC DICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 6, 1962, abstract 6-1-73 u (Chekhosl. fiz. zh.,

1961, B 11, no. 10, 766-768)

TEXT: The magnetic anisotropy constant is found for a nickel ferrite specimen in which the ratio of the iron to nickel cations is 2:0.936. When the anisotropy is calculated from the usual formula, starting from the cristalline structure of the alloy, the obtained anisotropy constant is negative, which has been repeatedly observed for heterogeneous magnetic alloys and was explained by the internal inhomogeneities of the material. For this reason a new model has been adopted, according to which the specimen consists of individual particles, and for each particle its surrounding is homogeneous and is regarded to be spherical. The field acting on each particle is increased by a factor 4/3 m relative to the magnetiza-Card 1/2

S/194/62/000/006/008/232 D222/D309

Effective anisotropy constant of ...

tion effect of the specimen surface. A spherical specimen was selected and the field causing the rotation process during remagnetization was measured directly between the poles of an electromagnet. The single-axis magnetic anisotropy constant obtained was 1.4 x x 10⁻⁵ Oe/cm³ compared with -2.7 x 10⁻⁵ Oe/cm³ for ordinary crystalline anisotropy. The observed linear dependance of magnetization on the reciprocal of the squared magnetic field intensity of the external field remains almost constant for varying temperatures of the specimen. 5 references. [Abstracter's note: Complete translation.]

Card 2/2

L 05398-57 EWI(c)/ETI IJP(c) JD/WW

ACC NR: AP6029413

SOURCE CODE: CZ/0055/66/016/006/0536/0538

AUTHOR: Zitka, B.; Sternberk, J.

ORG: Institute of Solid State Physics, Czechosl. Acad. Sci., Prague

TITLE: The behaviour of Mn-Cu ferrite simultaneously magnetized by a pulse and

d-c field at a temperature of -195C

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 16, no. 6, 1966, 536-538

TOPIC TAGS: magnetization, ferrite, magnetization curve, magnetic field

ABSTRACT: The effects of magnetization of polycrystalline Mn-Cu ferrite with an a-c field and a d-c field have been described in earlier studies. The present paper deals with experiments with the same ring-shaped ferrite which was subjected to the simultaneous action of an a-c and d-c field. The results of two series of experiments are given. A diagram showing the magnetization curves and the time dependence of induction at varying field and pulse intensities is presented. The authors thank Dr. E. Steinbeiss from the Institute for Magnetic Materials in Jena for valuable discussion. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 31Dec65/ORIG REF: 004/

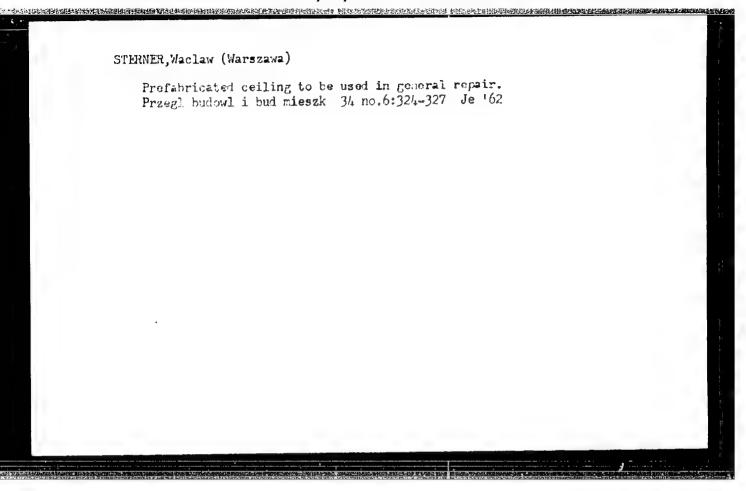
Card 1/1/1//

CTALLE, N.

Forgotten projects of Warsaw bridges. p. 354.

FEZYE FA I PEDCAMECTAD. Warszawa, Poland. Vol. 16, no. 9, Sept. 1959.

Nonthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960. Uncl.



HONMIK, K., kand. tekhn. nauk; KALJUMAE, H., inzh. gidrotekhn.;

KASK, R., kand. sel'khoz. nauk; KATUS, A., inzh. lesnogo khoz.;

KILDEMAA, K., kand. geogr. nauk; KURKUS, J., agronom; LIPFMAA,A.,

inzh. gidrotekhn.; PANT, R., prepodavatel, agronom; RAIG, V.,

inzh. gidrotekhn.; REPMEL, A., inzh.melior.; TALFSEPP,E., kand.

nel'khoz. nauk; SOOSAAR, V., inzh., lesnogo khoz.; STERNFELD,H.,

inzh. stroit.; TCMINGAS, E., inzh. melior.; KARUS, G., red.;

RAUD, M., red.; VAHTRE, I., tekhn. red.

我们就是我们就是我们的,我们就是我们的,我们就是我们的,我们也没有的人的,我们也没有的人的,你就是这个人的,你就会这个人的,我们也会会会会会会会会会,这一个人的 第一个人,我们就是我们就是我们的,我们就是我们的,我们就是我们的人的,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们就会不

[Handbook for soil improvement] Maaparanduse kasiraamat. Tallinn; Eesti riiklik kirjastus. Vol.1. [Fundamentals of soil improvement] Maaparanduse alused. 1962. 473 p. (MIRA 15:5) (Soils)

STERNIK, A.M., inshener.

Hemote control of tower cranes. Nov. tekh. i pered.op. v stroi.
19 no.2:25 F *57. (MLRA 10:4)
(Cranes, derricks, etc.)
(Remote control)

STERNIK, E.

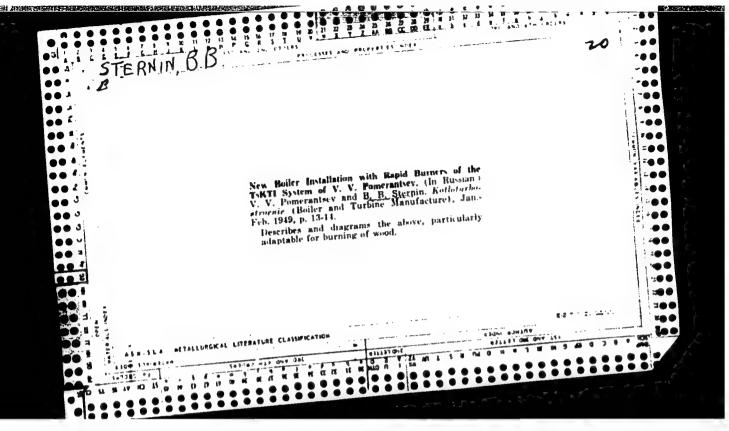
STERNIK, E. The influence of low temperatures upon the quality of baker's yeast. p. 368. Vol. 10, no. 9 Sept. 1956
PRZEMYSL SPOZYWCZY, Warsaw Poland

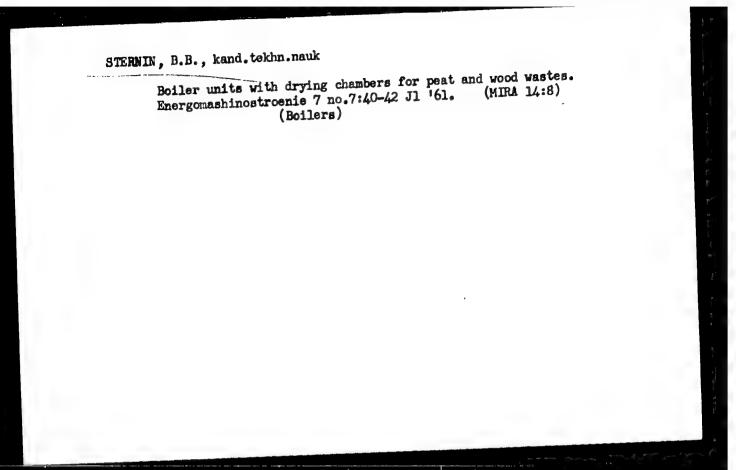
SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

STEENIK, Klara; MARKOWIAK, Wlodzimierz

Metabolism and physiological role of histamine in the organism. Pol. tyg. lek. 19 no.5:186-188 30 Ja *64.

1. Z Zakladu Patologii Ecswiadczalnej Polskiej Akademii Nauk w Warszawie (kierownik: prof. dr Z. Ruszczewski) i Pracownia Patofizjologii (kierownik: doc. dr Cz. Maslinski)





KORCHUNOV, Yu.N., kand. tekhn. nauk; STERNIN, B.B., kand. tekhn. nauk; YFROFEYEV, P.A., inzh.; ILLENZEYER, I.Kh., inzh.

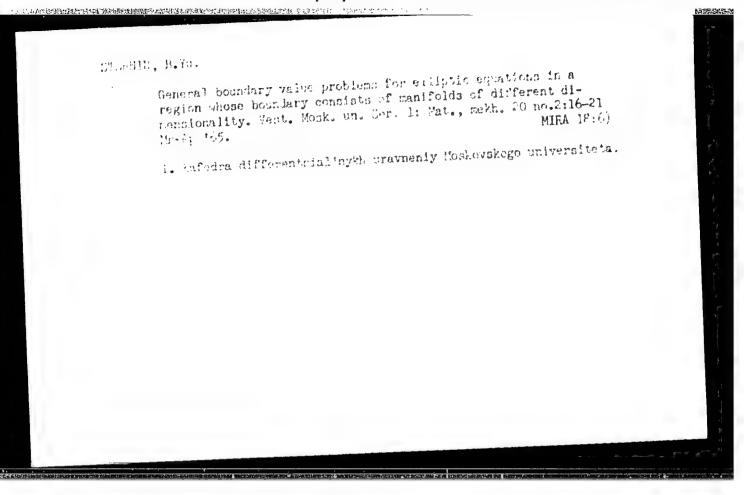
Adjustment and testing of the furnace system and dryer of the DKV-6,5-13 boiler. Energomashinostroenie 9 no.10:41-43 0 '63. (MIRA 16:10)

STERIN, B. Yu.

Constal boundary value problems for elliptic equations in a

Constal bounded by manifolds of varied dimensionality. Mckl.
region bounded by manifolds of varied dimensionality. Mckl.
AN ESSR 159 no.52992-994 D *64

1. Predstavleno akademikom I.G. Petrovskim.



DEMIN. G.V.; KAYVANOV. L.S.; SAKHANSKIY, N.A.; STERNIN. I.M.; YUKHTANOV. D.M., kandidat tekhnicheskikh nauk, redsktor; PETROVA, N.S., tekhnicheskiy redsktor

经数据的现在分词 医克克克氏 医克克克氏病 医克克克氏病 医克克克氏病 医克克克氏病 医克克克氏病 医克克克氏病 医克克克氏病 医多克克克氏病 医多克克克氏病 医多克克克氏病 医多克克克氏病 医多克克克氏病 医多克克克氏病

[High-speed smelting in a reverberatory furnace; experience of skilled workman A.A. [Arusov] Skorostnaia playkm v otrazhatelinykh pechakh; opyt mastera A.A. [Arusova. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1952. 68 p. [Microfilm]

1. Russia (1923 U.S.S.R.) Ministerstve tsvetnoy metallurgii.
Tekhnicheskoye upravleniye. TSentralinyy institut informatsii.
2. Zamestiteli direktora instituta Gintsvetment (for Yukhtanev)
(Smelting furnaces)

FILYAND, Mikhail Abramovich; SEMENOVA, Yelizaveta Ivanovna; FOGODIN, S.A., zasluzhennyy deyatel' nauki 1 tekhniki RSFSR, professor doktor, retsenzent; MEYERSON, G.A., prof., doktor tekhn. nauk, retsenzent; ZELIKMAN, A.N., prof., doktor tekhn. nauk, retsenzent; LOGINOV, A.B., red.; STERNIN, I.M., red.; KAMAYEVA, O.M., red.izd-va

[Properties of rare elements; a handbook] Svoistva redkikh elementov; spravochnik. Izd.2., perer. i dop. Moskva, Izd-vo Metallurgiia, 1964. 912 p. (MIRA 17:3)

的运行的增加。10mm24.00mm26.00mm36.00mm36.00mm36.00mm36.00mm36.00mm36.00mm36.00mm36.00mm

KOSOV, V.V., red.; POLYAKOV, I.Ya., prof., doktor sel'skokhoz.nauk, red.; STERNIN, I.V., red.; PECHENKIN, I.V., tekhn.red.

[Forecasting the appearance and calculating the prevalence of plant diseases and agricultural pests] Prognoz poiavleniia i uchet vreditelei i boleznei sel'skokhoziaistvennykh kul'tur. Moskva, Izd-vo M-va sel'.khoz. SSSR, 1958. 626 p. (MIRA 12:1)

1. Russia (1923 - U.S.S.R.) Glavnaya gosudarstvennaya inspektsiya po karantinu i zashchite rasteniy. 2. Nachal'nik Glavnoy gosudarstvennoy inspektsii po karantimu i zashchite rasteniy Ministerstva sel'skogo khozyaystva SSSR (for Kosov). 3. Zaveduyushchiy laboratoriyey prognozov razmnozheniya massovykh vrediteley sel'skozhoz. kul'tur Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy (for Polyakov).

(Plant diseases) (Agricultural pests)

30V/179-59-1-5/36

AUTHOR: Sternin, L. Ye. (Moscow)

On Computing an Adelly symmetrical Reaction Nozzle of Least Weight (K raschetu osesimmetrichnogo reaktivnogo sopla naimen'shego TITLE:

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1959, Nr 1, pp 41-45

It was found (Refs.1, 2, 3) that a short and therefore light nozzle does not give the best results. Therefore, various computations were performed in order to find the best charac-ABSTRACT: teristics (Eqs. on p 41, where x, y - coordinates, p - pressure of flow, p - density, po - pressure resistance, w - velocity, 0 - angle of velocity, \alpha - angle between velocity and a characteristic, a - critical velocity). The problem, however, can be considered when a characteristic AM (Fig. 1) can ever can be considered when a characteristic AM (Fig. 1) can ever, can be considered when a characteristic AM (Fig.1) can be found for a given weight. The pull of a curved section can be calculated from Eq.(1.1) where R is the pull of section OA . A condition of equilibrium can be expressed as Eq.(1.2) and the weight by Eq.(1.3), where S_0 is weight of the section

Card 1/3

Card 2/3

SOV/179-59-1-5/36

On Computing an Axially-symmetrical Reaction Nozzle of Least Weight

S is a continuous function describing the relation of surface and wall thickness of the nozzle. The other characteristics can be described as Eqs.(1.4) and (1.7), from which Eqs.(1.8) to (1.13) for 3 points, BC, B and C are derived. Their solution based on the function $b_1(y) \equiv 0$ (Eq.1.14) (Refs.2-3), can be shown as Eqs.(1.15) to (1.17) with the parameters α , θ , x, y for points B and C calculated from Eqs.(1.18). It can be seen, then, that the solution can be found for any of the characteristics for a given weight, due to the differential equations (1.10), (1.8) and (1.9) due to the differential equations (1.10), (1.8) and (1.9) being of first order. The Eq.(1.17) can also be found by a different method (Ref.2). This can be performed when the pull at a point dS near the end (Fig.2) is considered. There the value of dP can be expressed as Eq.(2.1), which becomes Eq.(2.2) after differentiating for μ . From this, the Eq.(1.17) is obtained. It may happen that the nozzle has a product or mixed departs on its made from a profebricated conic differential predetermined length or is made from a prefabricated conic die stamping. In the former case $G = \gamma(S_0 + L)$ where γ is an index: when $\gamma = 1$, $S_{y(B)}^{i} = 0$, $S_{L}^{i} = 1$ (Ref.2).

SOV/179-59-1-5/36

One Computing an Axially-symmetrical Reaction Nozzle of Least Weight

In both cases the Eq.(1.17) should be changed accordingly.

Often in calculations an equivalent of weight ξ, determining the ratio of pull to the weight is employed. This ratio is usually predetermined. In this case Eq.(1.11) is substituted by Eq.(4.1). There are 2 figures and 3 Soviet references.

SUBMITTED: June 4, 1958.

Card 3/3

26.2161

,5/020/61/139/002/008/017 B104/B205

AUTHOR:

Sternin, L. Ye.

TITLE:

The boundaries of the domain of existence of shockless

nozzles of optimum design

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 139, no. 2, 1961,

335 - 336

TEXT: The variational problem concerning the optimum design of the supersonic section of an axisymmetric jet nozzle has been solved in several articles (G. Guderley, Ye. Gantsh, Mekhanika, 53, no. 4, 387, (1956); Yu. D. Shmyglevskiy, Prikl. matem. i mekh., 21, 195 (1957); L. Ye. Sternin, Izv. AK SSSR, Mekh. i mashinostr., 41, no. 1, (1959)). The solution is derived by assuming a given jet of the characteristic, which is phoduced by the flow past an angle A (Fig. 1). The best contour AB is obtained as a solution to the Goursat problem between the characteristic AC and the extremal characteristic CB. The equations on the extremal CB: $m_1 \cos \alpha + 2\pi \omega \cos (\alpha - \theta) = 0, \qquad (1)$

Card 1/4

The boundaries of the domain of ...

S/020/61/139/002/008/017 B104/B205

$$m_2 + 2\pi y \phi \omega^2 \operatorname{tgxsin}^2 \theta = 0, \qquad (2)$$

are now investigated. Here, x is the angle between the velocity and the characteristic, θ the angle of inclination of velocity toward the x-axis, w the velocity, γ the density, and m_1 and m_2 are constant Lagrange factors. From Eqs. (1) and (2) it follows that

$$y = -\frac{4\pi m_2}{\rho \sin 2\alpha} \left(\frac{m_1 \sin \alpha \pm \sqrt{4\pi^2 w^2 - m_1^2 \cos^2 \alpha}}{m_1^2 - 4\pi^2 w^2} \right)^2.$$
 (3)

is valid on the extremal. The plus sign is taken for α (C) \leq θ (C), and the minus sign for α (C) \geq θ (C), since Eq. (3) must be fulfilled at point C. It can easily be shown for α (C) \geq θ (C) that α and θ decrease along the extremal with growing y. For α (C) \leq θ (C) α increases and θ decreases. At a definite point, α is, equal to θ . When calculating other extremals, the sign of the radical in Eq. (3) has to be changed. As a result, the velocity distribution along the extremal of the characteristic will become Card 2/4

25778

\$/020/61/139/002/008/017 B104/B205

The boundaries of the domain of ...

non-monotonic. It follows from Eq. (3) that $dy/d\alpha \mid_{\mathbb{C}}$ will decrease when point C shifts along the characteristic ACP toward smaller values of x (within the range $\alpha \leq \theta$). At a certain value of C_0 , the value of this derivative will pass through zero and then remain negative. In terms of geometry, this can be interpreted as a loop near the base of the extremal. From a physical point of view, however, this means that it is impossible to derive a "shockless" solution for the variational problem for all points of the characteristic ACP on the left; hand side of C_0 , which might serve as starting points for the construction of the extremal. If α decreases along the extremal with growing y, the largest thrust will not be attained. If, using conditions (1) and (2), the derivative of the right-hand side of Eq. (3) is put equal to zero, a straightforward expression connecting α and θ on the line AC will be obtained for a gas current with constant κ with the aid of well-known formulas expressing ρ and ω in the terms of α :

 $\kappa \sin\theta \sin(\alpha + \theta) - \cos\alpha \sin^2 2\alpha + \sin\theta \sin(\theta - \alpha) - \sin\alpha \sin 2\theta \cos 2\alpha = 0$. On the left-hand side of this line, there exist no "shockless" solutions Card 3/4

X

25778 S/020/61/139/002/008/017 B104/B205

The boundaries of the domain of ...

for the variational problem. Yu. D. Shmyglevskiy is thanked for assistance. [Abstracter's note: Complete translation.] There are 1 figure and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publications reads as follows: G. V. R. Rao, Jet Propulsion, no. 6, 377, (1958).

PRESENTED: November 9, 1960, by V. P. Glushko, Academician

SUBMITTED: November 5, 1960

'ard 4/4

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310010-1

Charles 1. L., Seldil, Lie.

Mathematical analysis of the changes in tody waight in complete allocatery starvation in man. Pat. Siziot. 1 eksp. terap. 7 mc.2:66-68 Mr-Ap '65.

1. Northne-isoledovatel'akiy institut psikhiatrii (iir. - prof. D.D.Paintov) Ministerstva ziravokuranchiya dSFSR, Moskva.

EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1)L 59221-65 Pd-1

ACCESSION NR: AP5014933

UR/0040/65/029/003/0418/0429

AUTHORS: Krayko, A. N. (Moscow); Sternin, L. Ye. (Moscow)

TITLE: On the theory of flows of a two-speed continuous medium with solid or liquid particles

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 3, 1965, 418-429

TOPIC TAGS: viscous gas flow, particle motion, continuity, continuous flow method, flow research

ABSTRACT: The problem of movement of a continuous medium having extraneous matter is described by means of a model of a two-speed continuous substance. Several conditions are established for the purpose of clarifying the model: 1) the particles are identical spheres and collisions among the spheres can be ignored; 2) distances along which the flow characteristics are actually measured are a great deal larger than interparticle distances; 3) the Mach number of relative particle motion is less than critical. It is furthermore assumed that viscosity and thermal conduction are important only in processes of gas and particle interaction. The equations of motion and particle energy are given as

Card 1/3

II 59221-65

ACCESSION NR: AP5014933

 $(V_d \nabla) V_d + \frac{\partial V_d}{\partial t} + \frac{1}{\rho_d} \nabla p - t - F_d = 0$

$$V_d \nabla e_d + \frac{\partial e_d}{\partial l} - q - Q_d = 0$$

$$f = \varphi^1 \cdot |V - V_d|^n (V - V_d), \quad q = \varphi^1 \cdot (T - T_d)^k$$

$$T_d = T_d(e_d), \quad \varphi^i = \varphi^i(p, T, T_d, |V - V_d|), \quad n > -1, \quad k > 0$$

The notation used includes: m- mass, $\rho^{o}d$ - constant density, V_{d} - velocity, T_{d} -particle temperature, p- pressure, T- gas temperature, V- gas velocity, and t-time. An aggregate stream flow density is derived by considering mass transfer through an infinitesimal volume element. The equations of mass conservation are given in integral form for both gas and particles as

$$\iiint \frac{\partial \rho}{\partial t} d\tau + \iint_{S} \rho V n dS = 0, \qquad \iiint \frac{\partial \rho_{d}}{\partial t} d\tau + \iint_{S} \rho_{d} V_{d} n dS = 0$$

where T is an arbitrary volume bounded by S, and n is the internal normal to S. The equations of conservation and motion within the control surface S are elaborated to include heat flow and work considerations. The mathematical model

Card 2/3

L 59221-65 ACCESSION NR: AP5014933				2	;
is derived through the appl and appraised as it applies of certain types of flow). dimensional and symmetric i Chernyy for their construct	to several particular Additional discussions. The authors the	ar cases (on is devo ank <u>G. M.</u>	presence and/or ted to condition Bam-Zelikovich	ons of two-	
ASSOCIATION: none					
SUBMITTED: 13Dec64	ENCL: 00		SUB CODE: 1	08	1
NO REF SOV: 006	OTHER: 008				
		•	•		
•	•			on House	- !
		•		,	
dm					
ard 3/3					

08/12-67 ACC NRI APG034533 WW/EM Sternin, L. Ye. (Moscow) AUTHOR: 3 ORG: none Extremal nozzle contours for gas flows with particle lag TITLE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 5, 1966, SOURCE: 14-22 TOPIC TAGS: contoured nozzle, Laval nozzle, nozzle design, two phase flow, nozzle flow, particle lag loss ABSTRACT: An analysis was made of one-dimensional two-phase flow in Laval nozzle at a small lag of the temperature and velocity of the particles with respect to the gas. The variational problem to determine the maximum impulse of the nozzle was formulated along the contour for a given geometric expansion. The impulse losses due to the nonparallelism of the flow were simulated by a function which depends on the variable ordinate of the contour and the inclination angle of the tangent to the contour. Instead of using the pressure as an argument in the expansion series of expressions for the flow parameters as in previous studies, the nozzle ordinate was used. The following expressions were obtained for the pressure, velocity, and temperature; Card 1/4

ACC NR: AP6034533 $\frac{p}{p_0} = 1 + \frac{\epsilon w}{1 + w} \frac{2x}{x + 1} \frac{L_a}{l(1 - \lambda^2)} \left\{ \lambda^{l_1} - (1 + \gamma \lambda^2) \left[L(\lambda) - \frac{l_a}{L_a} \frac{\xi}{\xi_1} \right] \right\}$ $\frac{u}{u_0} = 1 + \frac{\epsilon w}{1 + w} \frac{T(\lambda) l_a}{l(1 - \lambda^2)} \left[\frac{2x}{x + 1} L(\lambda) - \frac{x}{x - 1} \frac{l_a}{L_a} \xi - \frac{\lambda^{l_a}}{\lambda^{l_a}} \right]$ $\frac{T}{T_0} = 1 + \frac{\epsilon w}{1 + w} \frac{2t L_a}{l - 1 - \lambda^2} \left[\frac{1 + \lambda^2}{2 \sqrt{\lambda}} + \frac{x}{x - 1} \frac{l_a}{L_a} \xi - \frac{2x}{x + 1} L(\lambda) \right]$ where $\varepsilon = a_a/v$ (v is a parameter proportional to the square of the particle radius, a_a is the equilibrium gas velocity in the nozzle throat, v is the particle flow rate, and v is a parameter proportional to the square of the following two equations were derived for calculating the contour: $x = l \int_{\lambda}^{\infty} \frac{\sqrt{\lambda} \left\{ 1 + \tau (2\eta - 1) \lambda^{l_1} \right\}}{1 - \tau \lambda^{l_1}} d\lambda \left\{ \int_{\lambda}^{\alpha} \frac{\sqrt{\lambda} \left\{ 1 + \tau (2\eta - 1) \lambda^{l_1} \right\}}{1 - \tau \lambda^{l_1}} \right\}^{-1}$ $2 \left(\frac{x + 1}{2} \right)^{\frac{1}{\alpha - 1}} (1 - \tau \lambda^{l_1})^{\frac{1}{\alpha - 1}} r! \left(\frac{1 + w}{\epsilon w} \cdot \frac{x + 1}{2x} + \frac{1}{1 - \lambda^2} \left(\frac{\xi}{2\tau} \left(1 + \tau \lambda^{l_1} \right) + \frac{\lambda M(\lambda)}{T(\lambda) \frac{1}{\alpha - l} \frac{1}{\lambda^2}} \right)$ $\times \left(R_1 = + \int_{\lambda}^{\lambda} \frac{1 + \tau \lambda^{l_1}}{l^2} d\lambda \right) = const, R_1 = R_1(\lambda_0).$ (2)

Cord 2/4

The party to the contract of the safety and so the party of the safety o

0

ACC NR. AP6034533

where 1 is the length of the nozzle, κ is the specific heat ratio, and $\eta = c/c_p^{-X} \epsilon_T$, $c_p^{-X} = c_p^{-} + vc/l + v$. The calculated contours are shown in Fig. 1. The nozzle contour calculated by equation (2) has smaller

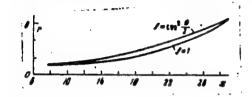
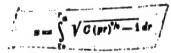


Fig. 1. Nozzle contours.

losses than those calculated by equation 1 due to the nonparallelism and particle lag, although the losses are quite large for both contours. Calculations, made by the equation



Card 3/4

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653310010-1

iven	flow	ates	out particle of the cont 2 figures.	s,showed tour amount	hat the max s only to +	imum differon. Orig.	ence betwe art. has:	en .
UB C		21/	SUBM DATE:	25Feb66/	ORIG REF:	005/ OTK 1	REF: 008/	
			V				•	
í				•			,	٠
							•	

MARTYNCHEV, A.N., kand.med.nauk (Leningrad, ul. Novostroyek, d.8, kv.3); STERNIN, M.A.; KOSTIN, E.D.

Dynamics of venous pressure in patients during surgery under various types of anesthesia. Vest.khir. 83 no.8:107-115 Ag '59.

(MIRA 13:1)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. A.V. Smirnov) i fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. P.N. Mapalkov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(ANESTHESIA eff.)

(BLOOD PRESSURE physicl.)

BROVERMAN, Mikhail Vladimirovich; STERNIN, M.G., inzh., retsenzent; KACHURINER, Ya.A., inzh., red.; BCRODULINA, I.A., red.izd-va; FRUMKIN, P.S., tekhn.red.

[Technology of the manufacture of centrifugal compressors]
Tekhnologiia proizvodstva tsentrobezhnykh kompressornykh
mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry.
1960. 220 p.

(Compressors)

s/114/60/000/003/005/008 E194/E355

Libman, S.Ye., Pachin, V.Kh., Sternin, M.G. and El'tsufin, S.A., Engineers **AUTHORS:**

Casting of Nozzle Segments of Steam Turbine TITLE :

Type BNT-50 (VPT-50) by the Lost-wax Method

Energomashinostroyeniye, 1960, No. 3, PERIODICAL: pp. 35 - 37

The nozzles of the high-pressure cylinder of turbine VPT-50 operate on steam at a pressure of 90 atm. and a temperature of 535 °C. The nozzle boxes consist of four separate segments wherein milled blades were mounted on machined rims and welded. The parts were made of forgings of steel grade |5x||np (15KhllMF). After welding, the duct sizes were corrected by hand fitting. To economise in cost, labour and metal the Leningrad Metal Works introduced the lost-wax method of casting nozzle-box sections. The cast segments have the ends cut off and are then butt-welded together. The patterns for the blade holders are made of a mixture of 96% technical urea and 4% boric acid. Those for Card 1/3

S/114/60/000/003/005/008 E194/E355

Casting of Nozzle Segments of Steam Turbine Type VPT-50 by the Lost-wax Method

the blades are made in a presstool with a mixture of 50% paraffin wax and 50% stearine. When the pattern has been assembled in the mould the urea part can be dissolved out

with water. The wax surface is treated with a ceramic paint consisting of 33% by weight hydrolised ethylsilicate and 67% marshalite, which is natural quartz dust. Six layers of ceramic paint are applied to the pattern. It is then dried, first in air and then in an ammonia chamber. Next, the wax pattern is melted out of the mould in hot water at 80 - 90°C. The mould is then dried at 200°C in an electric furnace. The mould is meinforced with sand and hardened by heating in an electric furnace for six hours.

Card 2/3

\$/114/60/000/003/005/008 E194/E355

Casting of Nozzle Segments of Steam Turbine Type VPT-50 by the Lost-wax Method

is described. Castings obviously defective are rejected by visual examination; final examination is by X-ray inspection and etching. Development experience that led to the use of the formulations and procedures given is briefly described. The shrinkage allowance is stated, and the method of controlled cooling used to avoid cracks is described.

By using casting instead of welding and milling, the weight of the normal segments on a turbine was reduced from 710 to 172 kg, the labour required was reduced from 1 730 to 840 man hours and the cost from 25 827 roubles to 13 387 roubles. There are 5 figures.

Card 3/3

STERNIN, M.O.

ENHARMONIAN BATTER TABLETICS DE

Subcutaneous rupture of the retroperitoneal portion of the duodenum. Vest.khir. 77 no.5:83 My '56. (MLRA 9:8)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. otd. D.S.Landsman)
Pskovskoy oblastnoy bol'nitsy (gl. vrach. I.I.Saltan, nauchn.
rukovoditel* V.V.Krestovskiy)
(DUODENUM, rupture,
retroperitoneal subcutaneous (Rus))

STERNIN, M.O. (Pskov, Bol'nichnaya ul., d.1)

Pathogenesis and clinical aspects of occlusion of the mesenteric vessels [with summary in English]. Vest.khir. 79 no.8:57-61 Ag '57.

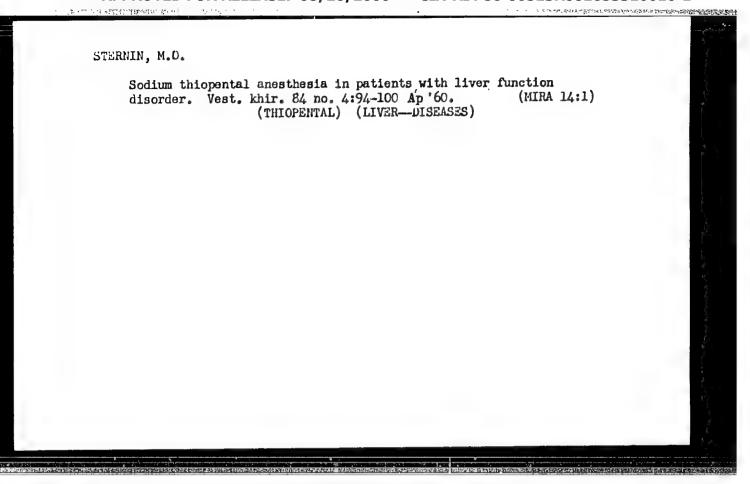
(MIRA 10:10)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - D.S. Lendsman)
Pakovskoy oblastnoy bol'nitay (nauchnyy rukovod. - dotsent V.V.

Testovskiy

(ANTERIES, MESENTERIC, dis.

occlusion, pathogen. & clin. aspects)



STERNIN, M.O.

llistochemical data on the effect of various pharmacological substances used in anesthesiology on the depot glycogen of the liver. Vest.khir. 85 no.11:116-123 N **60. (MIRA 14:2)

l. Iz gospital noy khirurgicheskoy kliniki (zav. - zasluzh. deyatel nauki prof. A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(LIVER) (GLYCOGEN) (ANESTHETICS)

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310010-1

STERMIN, M.O., Cand. Med. Sci., -- (diss) "Anesthetization during operations in patietns with mechanical jauraice," Leningrad.1961, 20 pp (Leningrad State Institute for the Advanced Training of Physicians im S. M. Kirov) 300 copies (KL-Supp 9661, 192)

DENISENKO, P.P.; STERNIN, M.O.

Use of central cholinolytic drugs in anesthesiology. Vest.khir. no.4:93-97 '61. (MIRA 14:4)

l. Iz otdela farmakologii (sav. - prof. S.V. Anichkov) Instituta eksperimental'noy meditsiny AMN SSSR i gospital'noy khirurgicheskoy kliniki (zav. - prof. A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(PARASYMPATHOLYTICS) (PREOPERATIVE CARE)

STERNIN, M. O.

Shock and hepatorenal insufficiency in pancreatoduodenal resections. Khirurgiia 37 no.7:93-98 J1 61. (MIRA 15:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - zasluzhennyy deyatel' nauki prof. A. V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta,

(PANCREAS_SURGERY) (DUODENUM_SURGERY)
(LIVER) (KIDNEYS)

STERNIN, M.O., MOTOVILOV, P.Ie, kand.med.nauk

Intravenous anesthesia with methygenal (thiogenal). Vest.khir. 86 no.2:67-70 161. (MIRA 14:2)

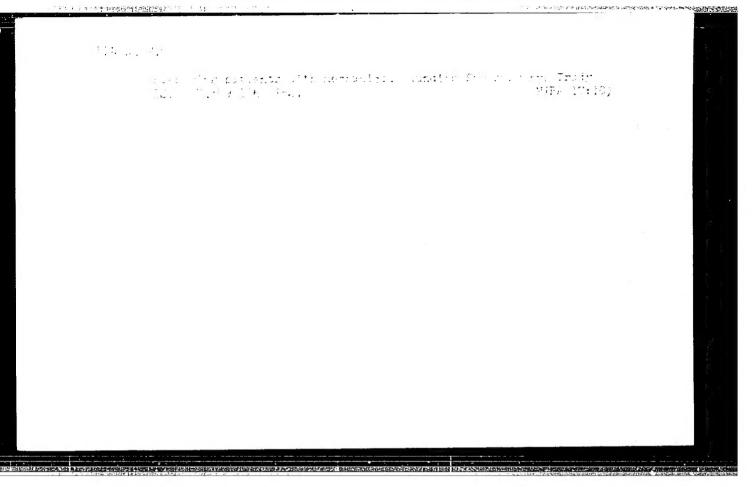
l. Iz gospital'noy khirurgicheskoy kliniki (zav. -- prof. A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinsko-go instituta i otdela farmakologii Instituta aksparimental'-noy meditsiny AMN SSSR.

(BARBITURATES) (INTRAVENOUS ANESTHESIA)

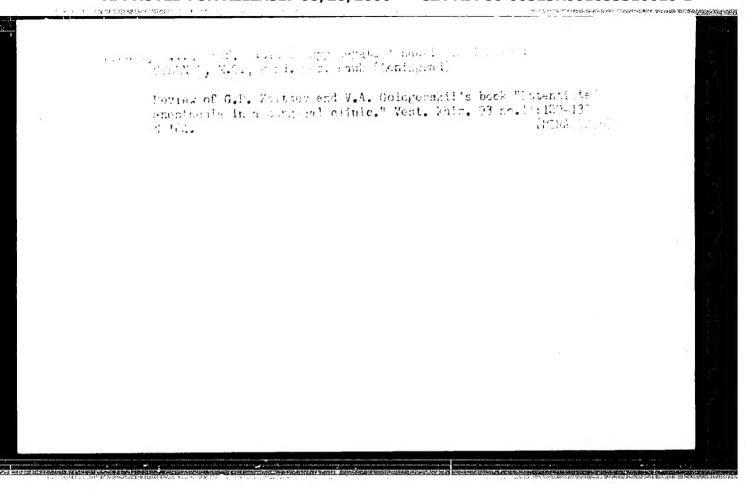
STERNIM, M.O.

Minutes of the 38th and 39th sessions of the Anesthesiological Section of the Pirogov Surgical Society. Vest.khir. 87 no.11: 148-151 N '61. (MIRA 15:11)

"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310010-1



"APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653310010-1



LYSENKO, T.D.; OL'SHANSKIY, M.A.; SINYAGIN, I.I.; GLUSHCHENKO, I.Ya.;

VARHITTSYAN, I.S.; PHEZENT, I.I.; SHCHERBINOVSKIY, N.S.; SHUNKOV,

V.I.; TEVSTIGHEYEV, S.N.; BOCHEVER, A.M.; LITVIN, V.M.; TAYKOVA,

A.T.; PODVOYSKIY, I.I.; SAKS, Ya.I.; KHALIFMAN, I.A.; FEYGINSON,

N.I.; SHCHEBGLOVA, Yu.N.; DLUGACH, G.V.; SYNRWIN, B.A.; LISOVSKATA,

O.V.; GUBINA, T.I.; ROZENFEL'D, M.I.: TSVETATEVA, Ya.M.; PARKHO
MENKO, Ya.V.; NEYMAN, N.F.

Sofia IAkovlevna Voitinskaia; an obituary. Agrobiologila no.4:121

J1-Ag '58.

(WIRA 11:9)

(Voitinskaia, Sofi'ia Iakovlevna, 1898-1958)